BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Name of work Improvements to drains roads in maruthi farm, in Amruthanagara A sector in ward no.07, Byatarayanapura

Est cost: 85.00 lakhs

Name of Work:- Improvements to drains roads in maruthi farm, in Amruthanagara A sector in ward no.07, Byatarayanapura									
			Estimate Cost:					85.00 Lakhs	
S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	Desilting of existing drains								
	maruthi farm main road		2.00	140.00	0.60	0.60	100.80		
	1st cross		2.00	29.00	0.60	0.60	20.88		
	2nd cross		1.00	35.00	0.60	0.60	12.60		
	3rd cross		2.00	40.00	0.60	0.60	28.80		
	4th cross		2.00	50.00	0.60	0.60	36.00		
	muniramayya layout cross road 1		1.00	65.00	0.60	0.60	23.40		
	3rd main		2.00	150.00	0.60	0.60	108.00		
	muniramayya layout cross road 2		1.00	50.00	0.60	0.60	18.00		
	2nd main		2.00	300.00	0.60	0.60	216.00		
	Narayanaswamy layout 6th cross		1.00	40.00	0.60	0.60	14.40		
	Narayanaswamy layout 7th cross		1.00	40.00	0.60	0.60	14.40		
	For Pit		45.00	3.14*0.8*0.8		3.00	67.82		
	(3.14x0.6x0.)/4 x 3.0			4					
	Overburden		58.00	2.00	1.20	1.00	139.20		
					TOTAL		**800.30**	137.80	110281.89
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						

2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration inlcuding curing for 14 days including cost of all materials labour, HOM curing, form works, scaffolding and centering complete as per specification .								
	Below kerb								
	maruthi farm main road		2.00	140.00	0.45	0.15	18.90		
	1st cross		2.00	29.00	0.45	0.10	2.61		
	2nd cross		1.00	35.00	0.45	0.10	1.58		
	3rd cross		2.00	40.00	0.45	0.10	3.60		
	4th cross		2.00	50.00	0.45	0.10	4.50		
	muniramayya layout cross road 1		1.00	65.00	0.45	0.10	2.93		
	Maruthi form 5th cross		2.00	86.00	0.45	0.10	7.74		
	3rd main		2.00	150.00	0.45	0.15	20.25		
	muniramayya layout cross road 2		1.00	50.00	0.45	0.10	2.25		
	2nd main		2.00	300.00	0.45	0.15	40.50		
	Narayanaswamy layout 6th cross		1.00	40.00	0.45	0.15	2.70		
	Narayanaswamy layout 7th cross		1.00	40.00	0.45	0.15	2.70		
					TOTAL		**110.25**	5421.90	597764.48
	Basic Rate:	cum	5115.00						
	Area Weightage @ 6%		306.90						
	Total		5421.90						
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.7.5 cm thick (Pg No.27, Item No.5.31.1)								
	BS SLAB DRAIN								
	maruthi farm main road		2.00	115.00	1.35		310.50		
	1st cross		2.00	25.00	1.35		67.50		
	2nd cross		1.00	30.00	1.35		40.50		
	3rd cross		2.00	35.00	1.35		94.50		
	4th cross		2.00	40.00	1.35		108.00		
	muniramayya layout cross road 1		1.00	55.00	1.35		74.25		
	3rd main		2.00	70.00	1.35		189.00		
	muniswamappa layoutcross road 2		1.00	100.00	1.35		135.00		
	2nd main		2.00	40.00	1.35		108.00		
	muniramayya layout cross road 2		1.00	200.00	1.35		270.00		
	Narayanaswamy layout 7th cross		1.00	40.00	1.35		54.00		
					TOTAL		**1451.25**	742.00	1076827.50
	Basic Rate:	Sqm	700.00						
	Area Weightage @ 6%		42.00						
	Total		742.00						

4	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work.(Pg No.27, Item No.5.28)								
	For raising side walls of drain								
	maruthi farm main road		2.00	140.00	0.10		28.00		
	1st cross		2.00	29.00	0.10		5.80		
	2nd cross		2.00	35.00	0.10		7.00		
	3rd cross		2.00	40.00	0.10		8.00		
	4th cross		2.00	50.00	0.10		10.00		
	muniswamappa layout		2.00	65.00	0.10		13.00		
	Maruthi form 5th cross		2.00	150.00	0.10		30.00		
	3rd main		2.00	50.00	0.10		10.00		
	muniswamappa layoutcross road 2		2.00	300.00	0.10		60.00		
	Narayanaswamy layout 6th cross		2.00	40.00	0.10		8.00		
	Narayanaswamy layout 7th cross		2.00	40.00	0.10		8.00		
					TOTAL		**187.80**	859.66	161445.00
	Basic Rate:	Sqm	811.00						
	Area Weightage @ 6%		48.66						
	Total		859.66						

5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete10cms thick.(Pg No.27, Item No.5.31.2)								
	COVERING SLAB								
	maruthi farm main road		2.00	120.00	0.75		180.00		
	1st cross		2.00	25.00	0.75		37.50		
	2nd cross		1.00	30.00	0.75		22.50		
	3rd cross		2.00	35.00	0.75		52.50		
	4th cross		2.00	40.00	0.75		60.00		
	muniramayya layout cross road 1		1.00	50.00	0.75		37.50		
	3rd main		2.00	120.00	0.75		180.00		
	muniramayya layout cross road 2		1.00	50.00	0.75		37.50		
	2nd main		2.00	250.00	0.75		375.00		
	Narayanaswamy layout 6th cross		1.00	35.00	0.75		26.25		
	Narayanaswamy layout 7th cross		1.00	35.00	0.75		26.25		
					TOTAL		**1035.00**	966.72	1000556.00
	Basic Rate:	Sqm	912.00						
	Area Weightage @ 6%		54.72						
	Total		966.72						
6	KSRB 5-8.1: Providing one line dressing to granite stone slabs/granite stone masonry as per specifications.KBS ~~5.1.13~~ 5.17								
	maruthi farm main road		2.00	140.00	0.75		210.00		
	1st cross		2.00	29.00	0.75		43.50		
	2nd cross		1.00	35.00	0.75		26.25		
	3rd cross		2.00	40.00	0.75		60.00		
	4th cross		2.00	50.00	0.75		75.00		
	muniramayya layout cross road 1		1.00	65.00	0.75		48.75		
	3rd main		2.00	150.00	0.75		225.00		
	muniramayya layout cross road 2		1.00	50.00	0.75		37.50		
	2nd main		2.00	300.00	0.75		450.00		
	Narayanaswamy layout 6th cross		1.00	40.00	0.75		30.00		
	Narayanaswamy layout 7th cross		1.00	40.00	0.75		30.00		
					TOTAL		**1236.00**	950.82	1175214.00
	Basic Rate:	Sqm	897.00						
	Area Weightage @ 6%		53.82						
	Total		950.82						

7	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete.Pg No. 27, Item No.5.29.1								
	maruthi farm main road		2.00	140.00			280.00		
	1st cross		2.00	29.00			58.00		
	2nd cross		1.00	35.00			35.00		
	3rd cross		2.00	40.00			80.00		
	4th cross		2.00	50.00			100.00		
	muniramayya layout cross road 1		1.00	65.00			65.00		
	Maruthi form 5th cross		2.00	86.00			172.00		
	3rd main		2.00	150.00			300.00		
	muniramayya layout cross road 2		1.00	50.00			50.00		
	2nd main		2.00	300.00			600.00		
	Narayanaswamy layout 6th cross		1.00	40.00			40.00		
	Narayanaswamy layout 7th cross		1.00	40.00			40.00		
							1820.00		
			TOTAL(total length/0.45)				**4044.44**		
							4045	467.46	1890876.00
	Basic Rate:	Nos	441.00						
	Area Weightage @ 6%		26.46						
	Total		467.46						
8	KSRB 5-9.1:Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. Page No. 124 / Item No. 15.80								
			4044.44		0.45		1820.00		
					TOTAL		**1820.00**	39.22	71381.00
	Basic Rate:	sqm	37.00						
	Area Weightage @ 6%		2.22						
	Total		39.22						
9	Providing and fixing MS Grating 260x260 mm(Page No.1X, Sl No.234, code No.0771)								
	For shoulder drians		370.00				370.00		
					TOTAL		**370.00**	84.75	31357.50
	Basic Rate:	Nos	84.75						
	Total		84.75						

10	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)								
					TOTAL		800.30	94.34	75501.00
	Basic Rate	cum	57.00						
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10		32.00						
	Total		89.00						
	Add Area Weightage6%		5.34						
			94.34						
11	Laying Reinforced cement concrete pipe NP3 for culverts inlcduding ends and fixing collars with cement mortar 1:2 including cost of materisla, labour, curing including cost of materials, labour HOM complete as per specifications. B. 750 mm dia Page No. 254, Item No. 34.6.4								
			45.00	3.00	--	--	135.00		
					TOTAL		135.00	3676.08	496270.80
	Basic Rate:	mtr	3468.00						
	Area Weightage @ 6%		208.08						
	Total		3676.08						
12	Providing 100mm and down size nominal size. (Pg No.I.Item No.23)								
	For Pit		45.00	0.28		1.20	15.20		
	(3.14x0.6*0.6)/4	Cum			TOTAL		15.20	987.62	15011.82
13	Providing 40mm and down size nominal size (Pg No.II.Item No.25)								
	For Pit		45.00	0.28		0.40	5.09		
	(3.14x0.6*0.6)/4	Cum			TOTAL		5.09	1091.43	5555.38
14	Providing 20mm and down size nominal size (Pg No.II.Item No.28)								
	For Pit		45.00	0.28		0.40	5.09		
	(3.14x0.6*0.6)/4	Cum			TOTAL		5.09	1091.43	5555.38
15	Providing Fine aggrgate 2.36mm nominal size (Pg No.II.Item No.32)								
	For Pit		45.00	0.28		0.30	3.82		
	(3.14x0.6*0.6)/4	Cum			TOTAL		3.82	1054.29	4027.39
16	Providing and fixing MS Grating 260x260 mm(Page No.IX, Sl No.234, code								
			90.00					89.84	8085.15
	Basic Rate:	Nos	84.75					84.75	
	Area Weightage @ 6%		5.09						
	Total		89.84						

17	Direction and place identification signs upto 0.9 sqm size Board - Providing and erecting direction and place identification retro-reflectorised signs as per revised IRC : 67-2012 made of high intensity grade sheeting vide clause 800.1.3, fixed over aluminium sheeting, 2mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75x75x6mm firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 45x45x60cm, 60cm below ground level as per approved drawing complete as per specifications. MORTH Specification No.801 Type IV sheeting (Page no.179, item no.~~24.3.1)~~ 24.3								
	Name boards		125.00	0.6	0.45		**33.75**		
	Small size		125.00	0.6	0.15		**11.25**		
		Nos					**45.00**	7274.78	327365.10
18	Providing and applying readymix priming coat concrete / masonry / asbestos cement sheet /plasterd surface including preparing the surface after throughly cleaning of oil grease dirt and other foreign matter and sand papering cost of materials labour as per specifications (page no.124, item no.15.80)								
	Name boards		125*2	0.6		0.45	67.50		
			125*2	0.6		0.15	22.50		
	pipes		125.00	0.31		2.6	100.75		
	Existing boards		125*2	0.6		0.45	67.50		
			125*2	0.6		0.15	22.50		
			125.00	0.31		2.6	100.75		
							381.50	39.22	14962.43
	Basic Rate:	sqm	37.00						
	Area Weightage @ 6%		2.22						
	Total		39.22						
19	Supply MS. Pipe. Code No. 256.Sl No.301. Pg No.X. 25MM DIA & 2.5MM THICK								
		MTR	125.00	2.6		14.5	**4712.50**	84.75	399384.38
	Basic Rate:	Nos	84.75						
	Total		84.75						
20	Painting on Steel surface :- Providing and applying two coats of ready mix paint of approved brand after through cleaning of surface to give an even shade complete as per specifications.complete as per specifications. MORTH Specification No.803(page no.180, item no.24.8.1)								
	New boards		125.00	0.31		2.6	100.75		
			125*2			0.6	150.00		
	Old boards		125.00	0.31		2.6	100.75		
			125*2			0.6	150.00		
							501.50	76.32	38274.48
	Basic Rate:	sqm	72.00						
	Area Weightage @ 6%		4.32						
	Total		76.32						

20	Painting new latter and figures any shade with synthetic enamel paint black or any approvel colour to give an even shede complete as per specification (I) Hindi (Matras commas and the like not to be measured and paid for half latter shall be counted as half) (page no.181, item no.24.9)								
	New boards		125.00	7	45		39375.00		
	old boards		125.00	7	45		39375.00		
							78750.00	1.06	83475.00
	Basic Rate:	cm	1.00						
	Area Weightage @ 6%		0.06						
	Total		1.06						
21						**Sub Total**			7589171.67
22				**Add 12% GST charges**					910700.60
23				**Miscelleneous charges**					127.73
24						**Total**			8500000.00

1)This is certified that the work spot comes under BBMP limits only. 0

2)The rates are as per CSR of 2018-19year of PWD Bangalore Circle.

N.D ~~Asst.Engineer~~ Ward no.7	Asst.Exe.Engineer Kodigehalli Sub-division B.B.M.P.	Executive Engineer Byatrayanapura Division B.B.M.P.

ADMINISTRATIVE APPROVAL

Accorded For Rs. 85.00 Lakhs only

Head of A/c. P3522

Div. Ref. No. 110 / 19-20 Date 9-3-2020

AE 9/03 EE(BTP) 9/03

Finally sanctioned for Rs. 85,00,000/-

Rs. in Words EIGHTY FIVE LAKHS ONLY

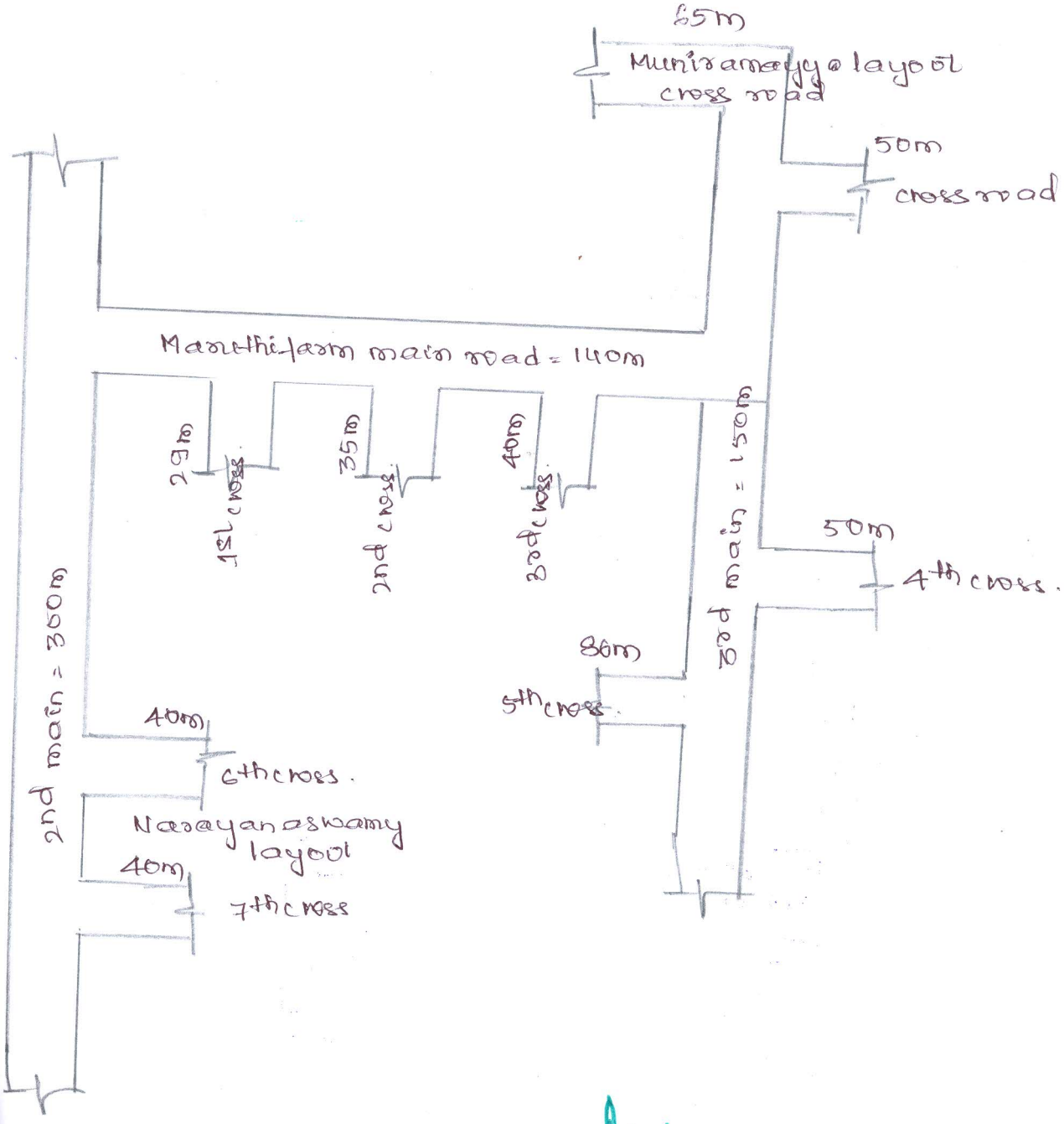
Under P3522

Job Code No. 007-19-000011

Registered as SE(Y)/TS/ 39 / 19-20 subject to conditions contained in enclosed memo No. 39 / 19-20 Dated: 16/03/2020

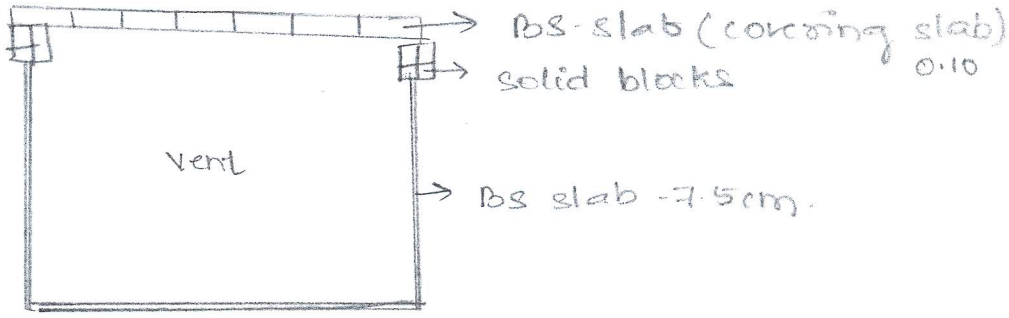
AE/JE TA SE(Y)

Improvements to drains roads in Marathi farm, in Amruthanagara 'A' sector in Ward no.07, byatarayanapura.

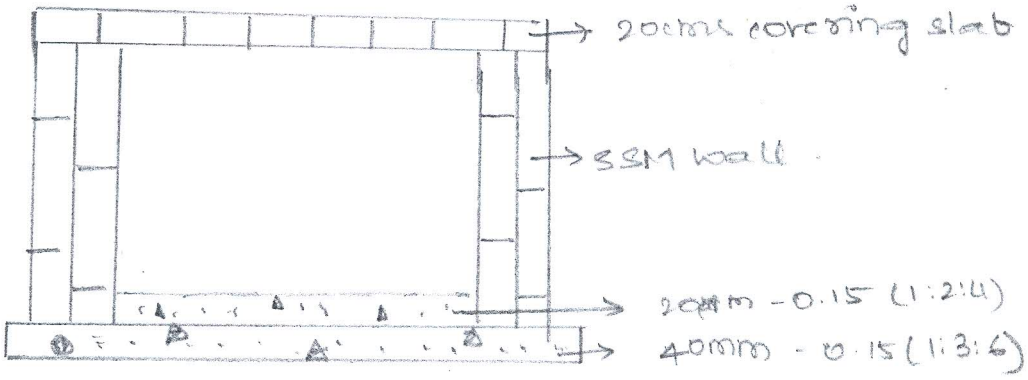


Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Improvements to drains · roads in Marothi farm in Amrotha-nagara A sector in ward no.07, byatarayanapura.



CROSS-SECTION OF DRAIN (BS SLAB)



CROSS-SECTION OF CULVERT

[signature] . N.D
AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pal
Bangalore - 560 092